



Bladed Junk Mills

Weatherford offers a full line of standardized bladed junk mills, designed to mill any type of junk or debris from the wellbore. These “workhorses” of downhole milling operations can be dressed either with CustomCut™ tungsten carbide inserts, for stationary fish or junk, or with crushed tungsten carbide, for loose fish or junk. Large circulation ports and watercourses improve fluids circulation for cooling and facilitate cuttings removal. Bladed junk mills can be ordered for any length and OD to meet the specific requirements of the job.

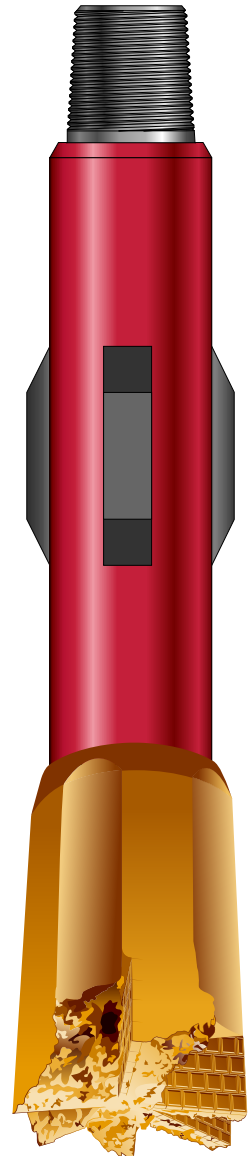
Weatherford's bladed junk mills are products of the company's MillSmartSM technology—an engineered approach to milling that encompasses a wide range of proven products, services, and technical resources, developed and refined by the world's largest and most experienced provider of milling and fishing services.

Applications

Milling almost anything in the wellbore, including, but not limited to: bit cones, bits, cement, packers, squeeze tools, perforating guns, drillpipe, tool joints, reamers, and reamer blades

Features, Advantages and Benefits

- Rugged, durable construction extends milling time per trip for maximized milling efficiency.
- Crushed tungsten carbide dressing, used for milling loose fish or junk, extends the life of the mill.
- CustomCut tungsten carbide inserts, used for milling stationary fish or junk, improve penetration rates and milling footage.
- Extra-long mill heads minimize risk of casing damage.
- Large circulation ports and watercourses improve cooling during milling operations and provide better fluids circulation and cuttings removal for optimal milling efficiency.
- Mill-head design customization capability provides milling solutions for the full range of open hole, casing, and tubing sizes and weights.
- Smooth OD reduces risk of casing damage in cased-hole wellbores.



MillSmart technology, featuring CustomCut inserts—because each job is different



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Specifications

Standard Junk Mill OD (in./mm)	Standard Top Pin Connection (API Reg.) (in.)	Standard Fishing Neck		Approximate Weight (lb/kg)
		Length (in./mm)	OD (in./mm)	
3-1/2 to 4-1/2 88.9 to 114.3	2-3/8	12 305	3-1/8 79.4	45 21
4-1/2 to 5-1/2 114.3 to 139.7	2-7/8	12 305	3-3/4 95.3	62 28
5-1/2 to 6 139.7 to 152.4	3-1/2	12 305	4-1/4 108.0	95 43
5-3/4 to 7-1/2 146.1 to 190.5	3-1/2	12 305	4-3/4 120.7	105 48
7-1/2 to 9 190.5 to 228.6	4-1/2	12 305	5-3/4 146.1	180 82
9-1/2 to 12-1/4 241.3 to 311.2	6-5/8	12 305	7-3/4 196.9	350 159
13 to 15 330.2 to 381.0	6-5/8 or 7-5/8	12 305	7-3/4 or 9-1/2 241.3 or 196.9	500 227
17 to 17-1/2 431.8 to 444.5	6-5/8 or 7-5/8	12 305	7-3/4 or 9-1/2 241.3 or 196.9	625 283
18-1/2 to 26 469.9 to 660.4	6-5/8 or 7-5/8	12 305	7-3/4 or 9-1/2 241.3 or 196.9	1,200 544

Options

- Concave, convex, and flat-bottom designs available
- Dressed with CustomCut™ tungsten carbide inserts for stationary fish or junk
- Dressed with crushed tungsten carbide for loose fish or junk
- Various lengths of fishing necks, stabilizers, and combination stabilizer-fishing necks available
- Smooth OD for cased-hole wellbores
- Rough OD for openhole wellbores
- Can be ordered for any length and OD to meet job-specific requirements